



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/585,762	08/22/2007	Francesc Santanach	016906-0529	7826

22428 7590 02/24/2011
FOLEY AND LARDNER LLP
SUITE 500
3000 K STREET NW
WASHINGTON, DC 20007

EXAMINER

FERGUSON, MICHAEL P

ART UNIT	PAPER NUMBER
----------	--------------

3679

MAIL DATE	DELIVERY MODE
-----------	---------------

02/24/2011

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/585,762	Applicant(s) SANTANACH ET AL.	
	Examiner MICHAEL P. FERGUSON	Art Unit 3679	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 December 2010.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 16-31 is/are pending in the application.
- 4a) Of the above claim(s) 20-23 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 16-19 and 24-31 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12 July 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Species 1, Figures 1 and 2, claims 16-19 and 24-28, in the reply filed on March 4, 2009 is acknowledged.
2. Claims 20-23 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on March 4, 2009.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
4. Claim 26 and 27 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships which render the claim indefinite are as follows:

Claim 26 recites "with the housing joint facing a surface of the positioning element which faces the housing". Claim 26 fails to clearly and positively recite any structural limitations which enable one to properly determine the structural engagement between the housing joint and the projections. Claim 27 depends from claim 26 and is likewise rejected as being indefinite. Furthermore, as to claim 27, it is unclear as to how the "opening is provided in the housing joint" and structurally engages the housing joint

Art Unit: 3679

such that the housing joint faces a surface of the positioning element which faces the housing.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 16-19 and 24-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Welsh (US 6,981,737) in view of Orth (US 4,468,054) and Muller et al. (WO 03/081113).

As to claims 16-19, Welsh discloses a fixing device capable of use with a motor vehicle air-conditioning system including an evaporator, an expansion valve, and a plurality of lines **30**, comprising:

a housing **18,24** capable of housing at least a part of the motor vehicle air-conditioning system, wherein the housing includes a projection **36** formed in a single piece with the housing **24**, and

a positioning element **80,100** configured to position the lines relative to each other, wherein the positioning element has a first set of two through-holes **32,110** configured to receive the lines and a second through-hole **88,116**,

wherein the projection is arranged and shaped in accordance with the second through-hole of the positioning element such that the positioning element can be positioned on the housing in a rotationally secure manner,

wherein the positioning element is capable of being fitted and fixed with an expansion valve in at least a twist-proof manner on the housing (Figures 1-3).

Welsh fails to disclose a fixing device wherein the positioning element has a first set of two slots configured to receive the lines, wherein the positioning element is a sheet-metal punched part; wherein the slots configured to receive the lines are arranged parallel to each other in the positioning element.

Orth teaches a positioning element **78** having a first set of two slots **80,82** configured to receive lines **66**, wherein the positioning element is a sheet-metal part; wherein the slots configured to receive the lines are arranged parallel to each other in the positioning element; parallel slots **80,82** in sheet metal positioning element **78** enables one to quickly and easily assemble the positioning element over lines **66** with a simple translatory motion (Figure 1, column 3 lines 4-16). Accordingly, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the fixing device disclosed by Welsh wherein the positioning element comprises a sheet-metal part having parallel slots as taught by Orth in order to enable one to quickly and easily assemble the positioning element over lines with a simple translatory motion.

Applicant is reminded that **process limitations are given little patentable weight in product claims** since the patentability determination of product-by-process claims is based on the product itself, even though such claims are limited and defined by the process. See MPEP § 2113. "The patentability of a product does not depend on its method of production. " In re Thorpe, 777 F.2d 695,698,USPQ 964,966

Art Unit: 3679

(Fed.Cir.1985). Accordingly, the process limitation of the positioning element being punched part in claim 1 is given little patentable weight. All that is required of such claim is that the positioning part is made of sheet metal and capable of being produced by a punching process.

Welsh as modified by Orth discloses a fixing device wherein the housing **18,24** comprises a single projection **58** received within a single centrally-located through-hole in the positioning element; instead of the positioning element having a second set of slots, wherein the second set of slots extend in a line toward each other at longitudinal ends of the positioning element, and wherein a plurality of projections are arranged and shaped in accordance with the second set of slots of the positioning element.

Muller et al. teach a fixing device wherein a fixing device wherein a positioning element **45** has a set of slots **45.2**, wherein the second set of slots extend in a line toward each other at longitudinal ends of the positioning element, wherein a plurality of projections **25.1** are arranged and shaped in accordance with the second set of slots of the positioning element such that the positioning element can be positioned on a housing **25** to fix the positioning element on the housing in a rotationally secure manner; opposing slots **45.2** in positioning element **45** receive a plurality of projections **25.1**, enabling one to prevent relative rotation between the positioning element and housing **25**, more securely fixing the positioning element on the housing (Figure 8). Accordingly, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the fixing device disclosed by Welsh wherein the positioning element comprises opposing slots receiving a plurality of projections as

Art Unit: 3679

taught by Muller et al. in order to enable one to prevent relative rotation between the positioning element and the housing, more securely fixing the positioning element on the housing.

As to claim 24, Welsh discloses a fixing device wherein the fixing device is capable of having an expansion valve fit on an outer side of the housing **18,24** with respect to an evaporator (Figure 1).

As to claim 25, Welsh discloses a fixing device wherein at least one hole **116** is provided in the positioning element to pass a screw **58** through and the screw being capable of screwing into an expansion valve (Figures 1-2).

As to claim 26, Welsh discloses a fixing device wherein the housing **18,24** has a multi-part design **70,90**, with a housing joint **60,64** running in a direction transverse to a long axis of the positioning element **80,100** (housing joint step portions **64** longitudinally extend in a direction transverse to a long axis of positioning element **80,100**; Figures 1-3).

As to claim 27, Welsh discloses a fixing device wherein an opening **62** is provided in the housing joint **60**, wherein the opening is configured to have at least one of the lines **30** protrude through the opening, with the at least one line capable of being connected to an expansion valve (Figures 1-2).

As to claim 28, Welsh discloses a fixing device wherein the projection **36** extends from a surface of the housing **18,24** towards the positioning element **80,100** (Figures 1-3).

As to claim 29, Welsh as modified by Orth and Muller et al. discloses a fixing device wherein the second set of slots (**45.2**; Muller et al. Figure 8) are configured such that the second set of slots receives the projections (**58**; Welsh Figure 2) as the projections extend outwardly in a direction from the surface of the housing **18** towards the positioning element.

As to claim 30, Welsh as modified by Muller et al. discloses a fixing device wherein the housing **18** comprises an opening **62** capable of receiving a plurality of lines **30** of the air-conditioning system through the opening, wherein the projections (**25.1**; Muller et al. Figure 8) of the housing are separate from and spaced apart from the opening (Welsh Figures 1-3).

As to claim 31, Welsh as modified by Muller et al. does not disclose any structural or functional significance and to the specific material of the housing and the projections.

The applicant is reminded that the selection of a known material based upon its suitability for the intended use, wherein there is no structural or functional significance disclosed as to the specific material of an element, is a design consideration within the skill of the art. In re Leshin, 227 F.2d 197, 125 USPQ 416 (CCPA 1960). Accordingly, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the fixing device disclosed by Welsh in view of Muller wherein the housing and the projections are formed by a single piece of injection molded plastic as Welsh as modified by Muller et al. does not disclose any structural or functional significance as to the specific material of the housing and the projections, and

Art Unit: 3679

as such selection of material is a design consideration within the skill of the art which would yield expected and predictable results.

Response to Arguments

7. Applicant's arguments filed December 15, 2010 have been fully considered but they are not persuasive.

As to claim 16, Attorney argues that:

Welsh fails to disclose a fixing device comprising a housing wherein the housing includes a projection *formed in a single piece with the housing*.

Examiner disagrees. As to claim 16, Welsh discloses a fixing device comprising a housing **18,24** wherein the housing includes a projection **36** formed in a single piece with the housing **24** (Figure 2).

Conclusion

8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Art Unit: 3679

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL P. FERGUSON whose telephone number is (571)272-7081. The examiner can normally be reached on M-F (6:30am-3:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel P. Stodola can be reached on (571)272-7087. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MPF
02/23/11

/Michael P. Ferguson/
Primary Examiner, Art Unit 3679